



CDF Operations

Steve Hahn

May 21, 2006

All Experimenters' Meeting

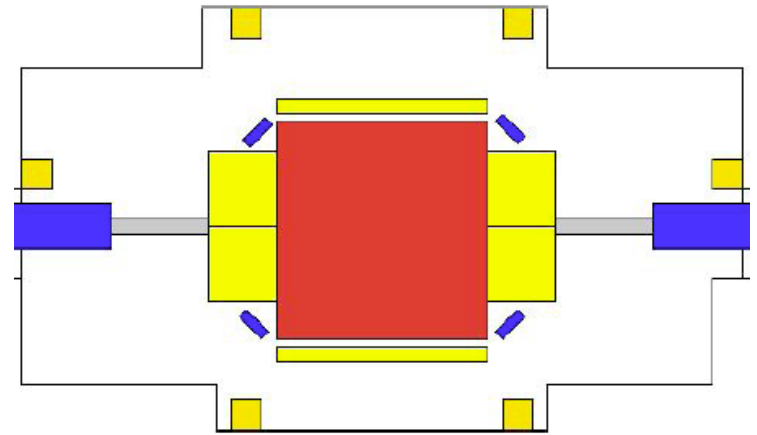


CDF Operations

☛ May: Week-by-week

➤ Week 10: May 2 to May 8

- ➔ Start running calibrations (for most systems) regularly; ramped up to all systems now
- ➔ Full Level 3 farm in place (18 subfarms; 384 dual Pentiums; ~1 kHz Level 3 throughput)
- ➔ Wet and dry engines for solenoid cryo plant rebuilt
- ➔ Bypassed UPS system and flammable gas HV shunt trips (no flammable gas in B0) in preparation to replace batteries



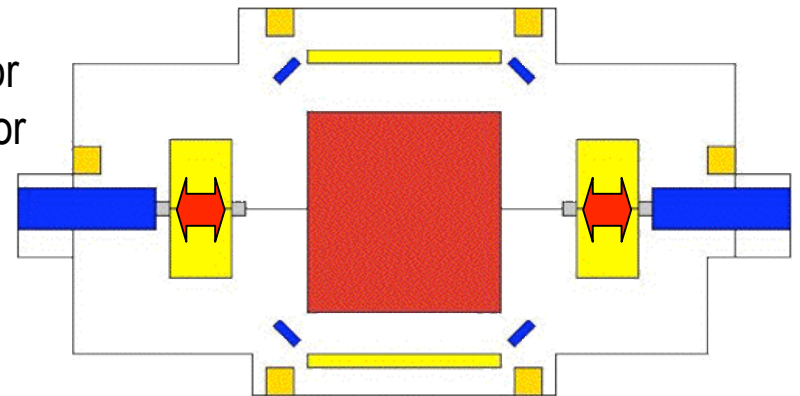


CDF Operations

☛ May: Week-by-week (continued)

➤ Week 11: May 9 to May 15

- ➔ UPS system back online with new batteries for silicon systems and control voltages in 1st floor counting room
- ➔ Due to Invar rod accident, found ~1 mr bend between Q2 and Q3; Monday, AD crew realigned low β quads in our west cradle without incident and did detector as-founds
- ➔ Plug source:
 - ➔ More robust gearheads and motors on all 8 drives
 - ➔ Wires inspected, cleaned, lubricated, tested, and some minor kinks smoothed out; two wires replaced with (non-magnetic) stainless steel
- ➔ AD interlock tests May 11



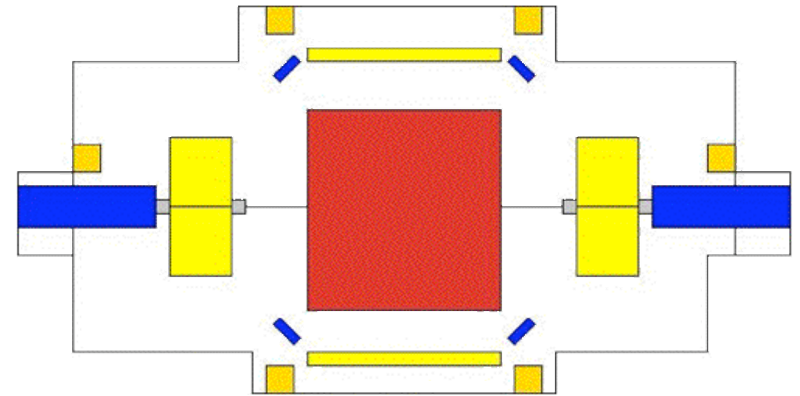


CDF Operations

☛ May: Week-by-week (continued)

➤ Week 12: May 16 to May 22

- ➔ CDF safety (crash button) tests
- ➔ Plug laser replacement to restore full system
- ➔ Finish work on CLC PMT replacement
- ➔ Finish work on PES multianode PMT fixes
- ➔ Complete XFT fiber installation for adding COT stereo layers to XFT trigger
- ➔ Cosmic runs with L2 trigger; no dead channels other than silicon (many restored there, too)
- ➔ Finish BLM and diamond sensor installation
- ➔ Just today:
 - ➔ Flammable gas flush completed to COT and muon chambers; HV testing resuming
 - ➔ Solenoid at full field after LCW heat exchanger leak found and repaired
 - ➔ Refurbished Hillman roller for replacement on SW muon steel appear today; replacement and testing tomorrow
 - ➔ Start day and evening shifts (0800-0000) and 24/7 process system techs



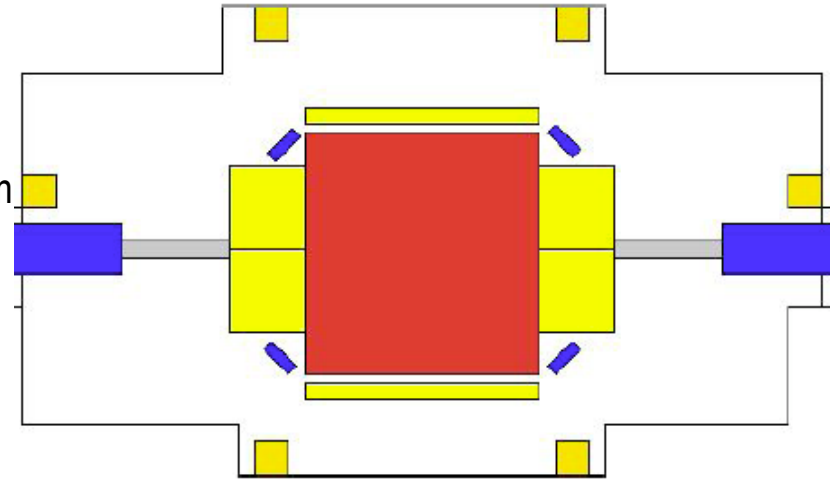


CDF Operations

☛ May-June: To do

➤ Tie up loose ends

- ➔ Plug source runs and endwall source runs
- ➔ May 31 and June 1: provide expert in control room for beam losses (especially to silicon)
- ➔ June 2: full 24/7 control room shifts
- ➔ Limited work as controlled accesses allows on:
 - ➔ Muon systems
 - ➔ Central calorimetry
 - ➔ Silicon
 - ➔ COT TDCs
- ➔ Get Level 2 isolation triggers working correctly
- ➔ Debugging XFT and SVT triggers
- ➔ New COT gas recirculation system (probably not until after shutdown; can be switched over transparently)



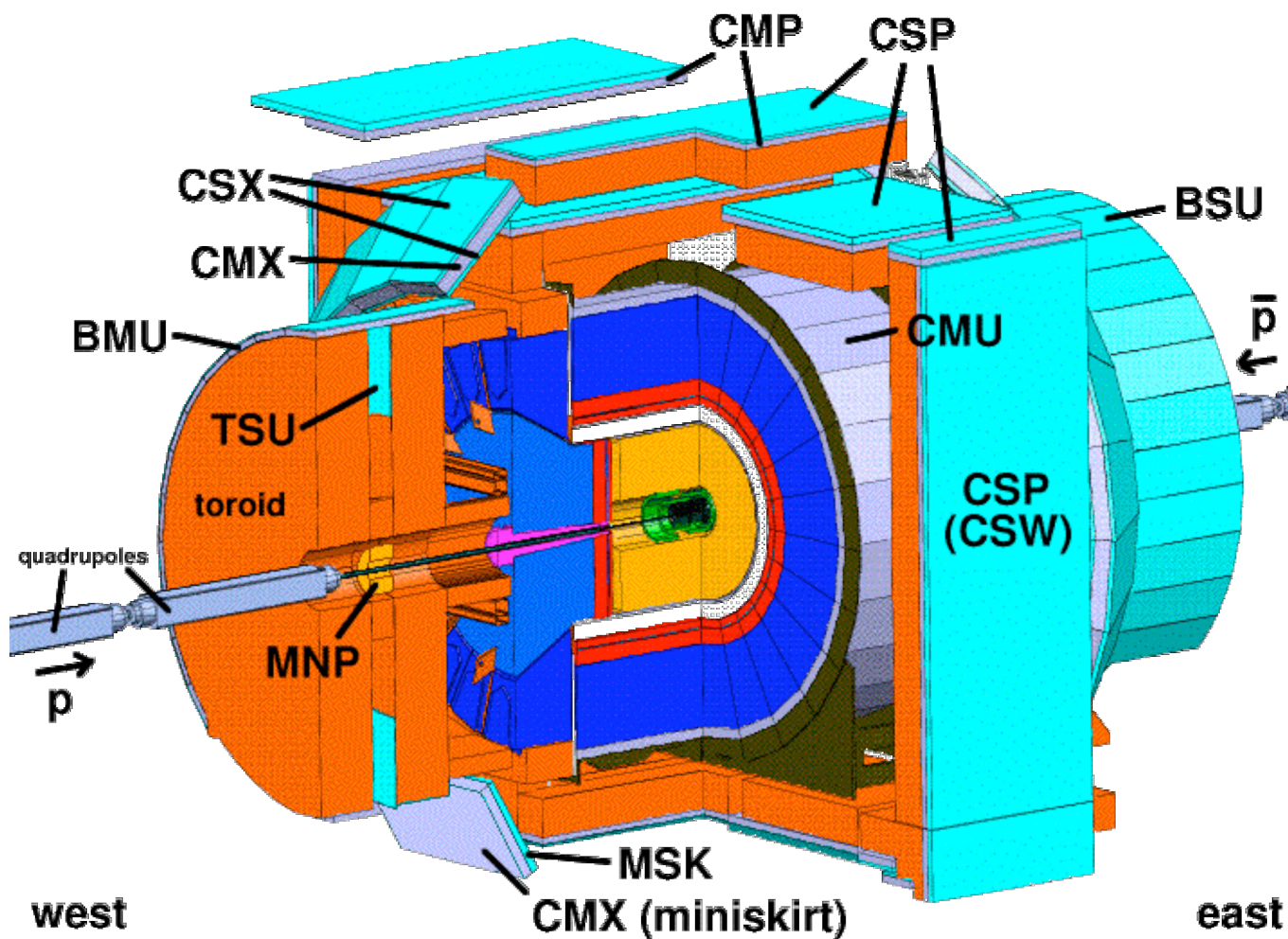


Important Dates

Date	
2/27	Shutdown begins
2/27	Open Collision Hall, begin detector work
2/27 - 6/1	No Owl shifts (Cryo: 3/6 - 5/22): HV off at night!
3/1 - 4/6	No Hardware Event Builder
3/7	Open all steel, full detector access
3/15 - 3/29	Hilman roller replacement (NW IMU steel)
3/13	Chambers off flammable gas
3/18	8 hour power outage to B0 and trailers
4/3 - 4/26	Solenoid bore access
4/3	1/2 hour site wide power outage
5/1	1/2 hour site wide power outage
5/19	Flammable gas to COT and most muon systems: HV off till flushed!
5/22	Solenoid cold; restrict access to collision hall
5/12 - 5/25	Cosmic rays, calibration and debugging
5/25	Tevatron Cold



CDF Run IIB Detector





CDF Run IIB Detector (inner)

